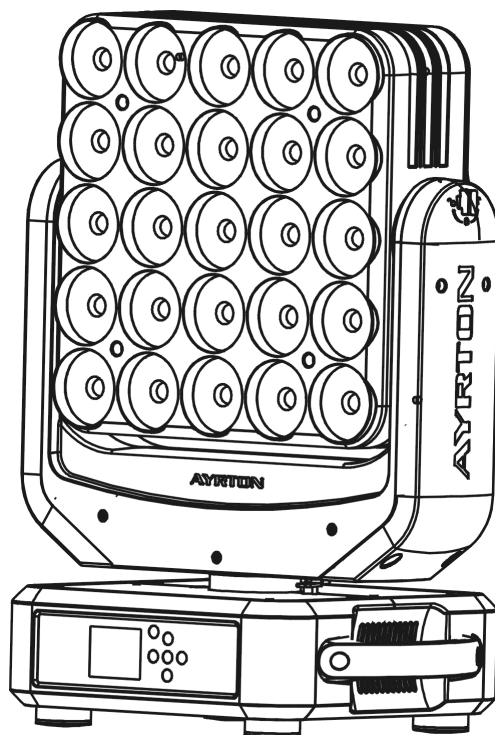




## ***USER MANUAL***



# **magicpanel R**

**KEEP THIS MANUAL FOR FUTURE NEEDS €**

**AYRTON – Le Parc de l'Événement – 1, Allée d'Effiat – 91160 LONGJUMEAU – France**  
**[www.ayrton.eu](http://www.ayrton.eu)**

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Thank you for your patronage. We are confident that our excellent products and service can satisfy you. For your own safety, please read this user manual carefully before installing the device.

In order to install, operate, and maintain the lighting safely and correctly. We suggest that the installation and operation should be done by the verified technician and follow the instruction strictly.



**CAUTION!**

Keep this device away from rain and moisture !



**CAUTION!**

Unplug mains lead before opening the housing.

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow carefully the instructions of this manual

**INTRODUCTION:**

Thank you for having chosen this professional moving head.  
You will see you have acquired a powerful and versatile device.

Unpack the device. Inside the box you should find:

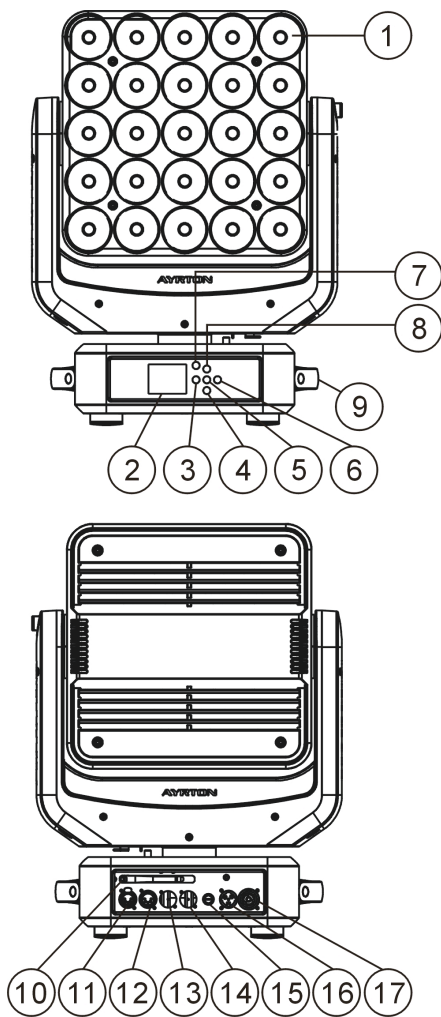
1. One safety rope
2. Manual

Please check carefully that there is no damage caused by transportation. Should there be any, consult your dealer and don't install this device.

**1. Features**

- 25 x 10W high power LEDs
- Extremely Long Life:100,000 Hr and low power consumption
- 3 DMX channel mode: 20/18/116 channels
- Pan/tilt movement: 8 bit and 16 bit resolution
  - For smooth and precise resolution
  - Pan: 540°/630° optional, Tilt: 265°movement
  - High speed of pan/tilt movement, speed of pan/tilt movement is adjustable
  - Scan position memory, auto reposition after unexpected movement
- Strobe effect with 18 flashes per second and pulse effect
- General dimming and blackout for all four colors
- Excellent RGBW mixing and rainbow effect
- Control board with full color LCD graphic display and touch-keyboard
- Dimmer intensity from 0%~100%
- Display: Can be changed 180° reverse to fit for different installation position.
- Rechargeable Back up Battery for Display
- Wireless receiver pre-installed
- Preset program: 7 built in programs can be called up via DMX controller
  - Software-upload by optional accessory via DMX line

## 2. Fixture Overview



- 1: Lens
- 2: Display
- 3: Left-button
- 4: Down-button
- 5: ENTER-button
- 6: Right-button
- 7: Mode/Esc-button
- 8: Up-button
- 9: Handle
- 10: Antenna – Wireless DMX
- 11: 5-Pin DMX out
- 12: 5-Pin DMX in
- 13: RJ45 out
- 14: RJ45 in
- 15: Fuse
- 16: Power in
- 17: Power out


## 3. SAFETY INSTRUCTIONS

### 3.1) Important safety warns



**CAUTION!**  
Be careful with your operations. With a dangerous voltage you can Suffer a dangerous electric shock when touching wires!

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.

**Important:**  
 **Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.**

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperature.

This device falls under protection-class I. Therefore it is essential that the device be earthed. If protection screen, lens or ultraviolet screen in the fixture is apparently damaged or is damaged to exceed their own effective degree, such as cracked and gashed, it must be replaced.

The electric connection must carry out by qualified person.

Make sure that the available voltage is not higher than stated at the end of this manual.



Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.

Please don't project the beam onto combustible substances.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

	<b>CAUTION!</b> Never touch the device during operation! The housing may heat up
	<b>CAUTION!</b> Never look directly into the light source, as sensitive persons may suffer an epileptic shock.

**Please be aware that damages caused by manual modifications to the device are not subject to warranty. Keep away from children and non-professionals.**

### 3.2) GENERAL GUIDELINES

This device is a lighting effect for professional use on stages, in discotheques, theatres, etc., the device was designed for indoor use only.

This fixture is only allowed to be operated with the max alternating current which stated in the technical specifications in the last page of this manual.

Lighting effects are not designed for permanent operation. Consistent operation breaks may ensure that the device will serve you for a long time without defects.

Do not shake the device. Avoid brute force when installing or operating the device.

While choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. Please don't project the beam onto combustible substances. The minimum distance between light-output from the projector and the illuminated surface must be more than 0.5 meter.

If you use the quick lock cam in hanging up the fixture, please make sure the quick lock fasteners turned in the quick lock holes correctly.

Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation.

Please use the original packaging if the device is to be transported.

For safety reasons, please be aware that all modifications on the device are forbidden.

If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to short-circuit, burns, electric shock, lamp explosion, crash, etc.

## 4. INSTALLATION INSTRUCTIONS



### CAUTION!

Do not operate this device with open cover

### 4.1) Mounting the device



### CAUTION!

Please consider the GB7000.1-2007, GB7000.217-2008 and the other respective national norms during the installation. The installation must only be carried out by a qualified person.

The applicable temperature for the lighting is between -10°C to 45°C. Do not use the lighting under or above the temperature.

The installation of the effect has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.

The installation must always be secured with a secondary safety attachment, e.g. an appropriate safety rope.

Never stand directly below the device when mounting, removing or servicing the fixture.

The operator has to make sure the safety relating and machine technical installations are approved by an expert before taking the device into operation for the first time.

These installations have to be approved by a skilled person once a year.

Overhead mounting requires extensive experience, including amongst others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the device. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.



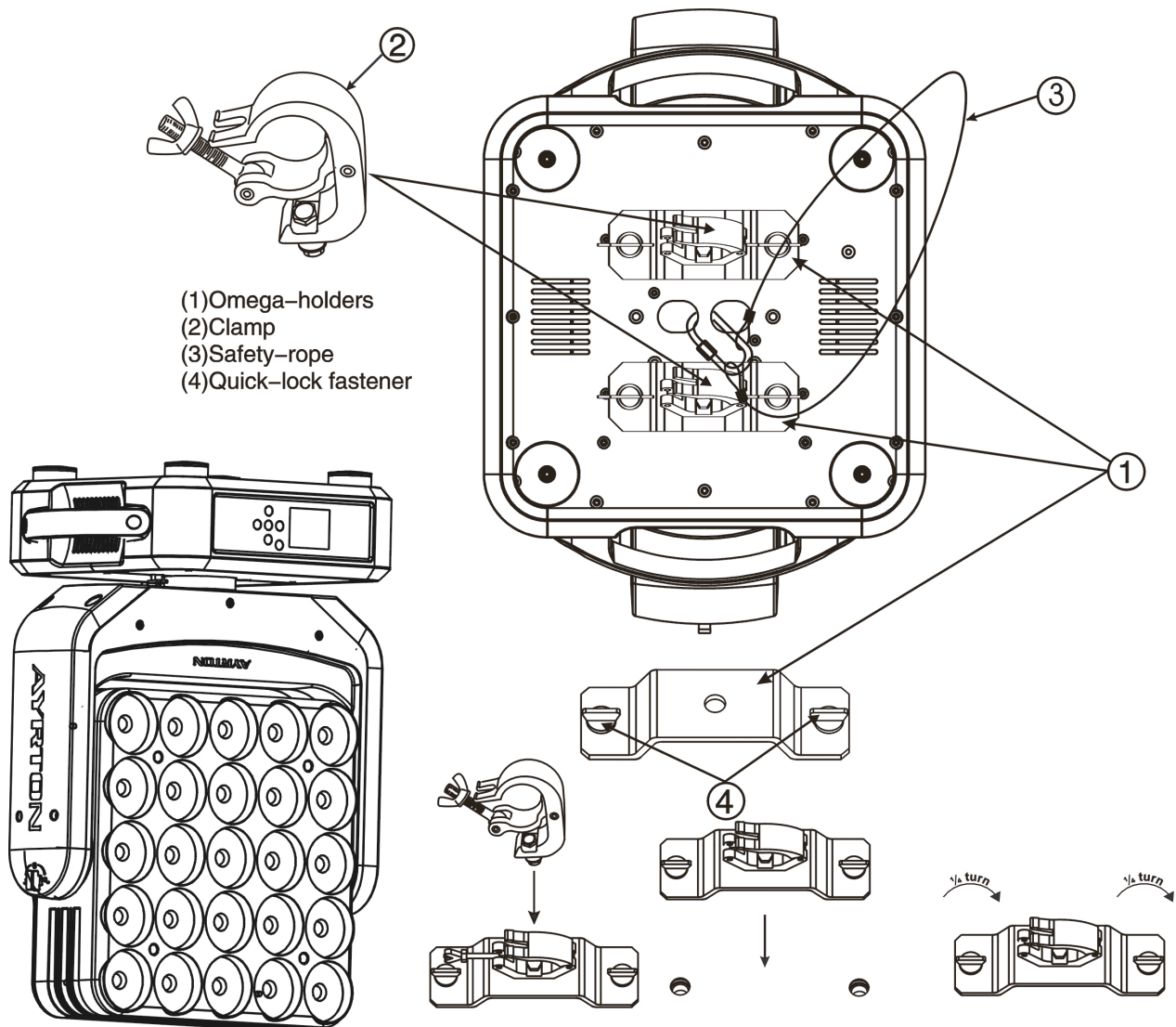
### CAUTION!

The electric connection must only be carried out by a qualified electrician.

Before mounting make sure that the installation area can hold a minimum point load of 10 times the device's weight.

Connect the fixture to the mains with the power plug.

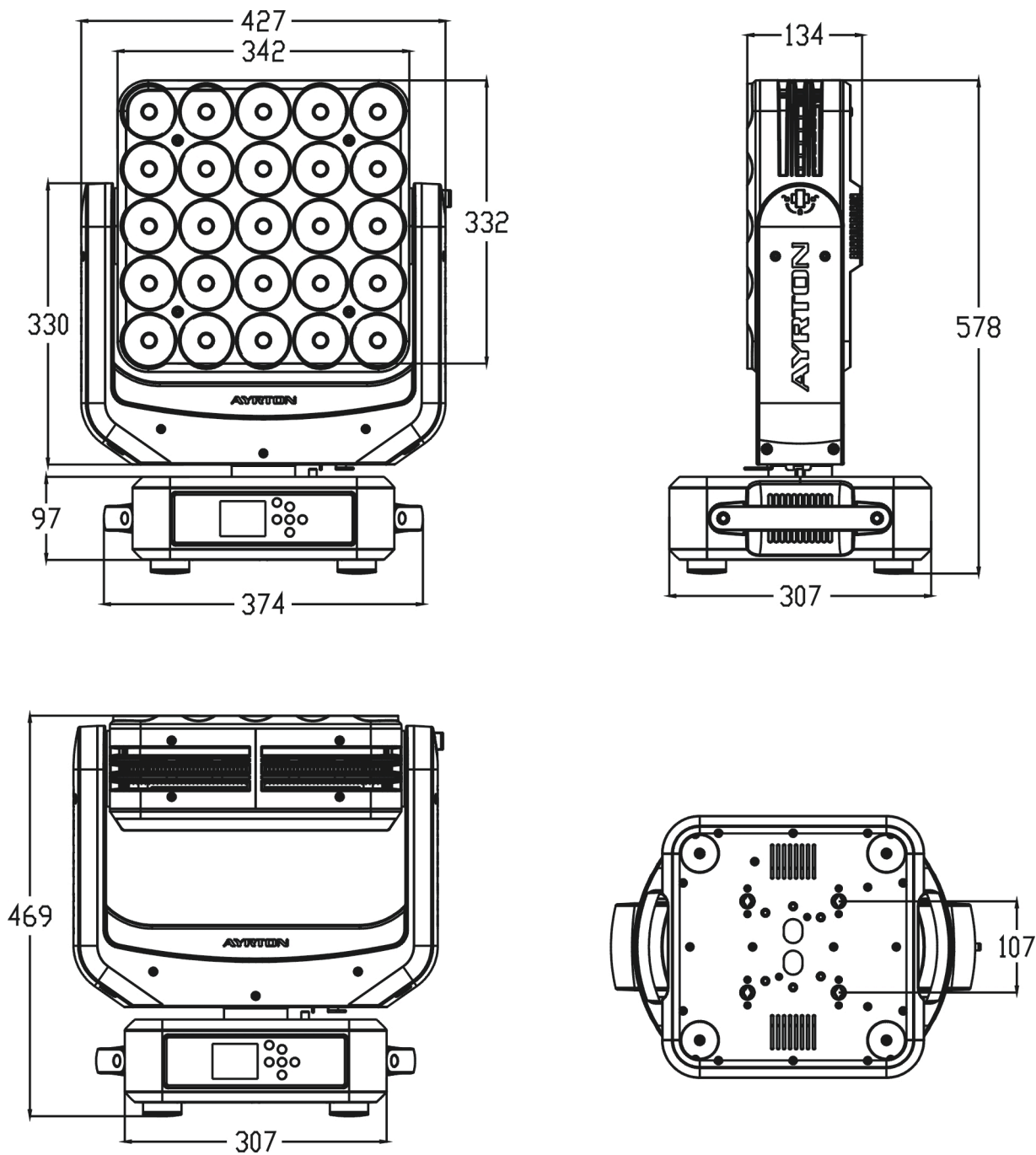
### Installation via the Omega holders



- Fixed the clamp on the bracket by tighten up the M12 screw on the bracket to the  $\Phi 13$  hole in the middle of the bracket.
- Insert the quick-lock fasteners of the first Omega holder into the respective holes on the bottom of the device. Tighten the quick-lock fasteners fully clockwise.
- Install the second Omega holder.
- Pull the safety-rope through the holes on the bottom of the base and over the trussing system or a safe fixation spot. Insert the end in the carabine and tighten the safety screw.

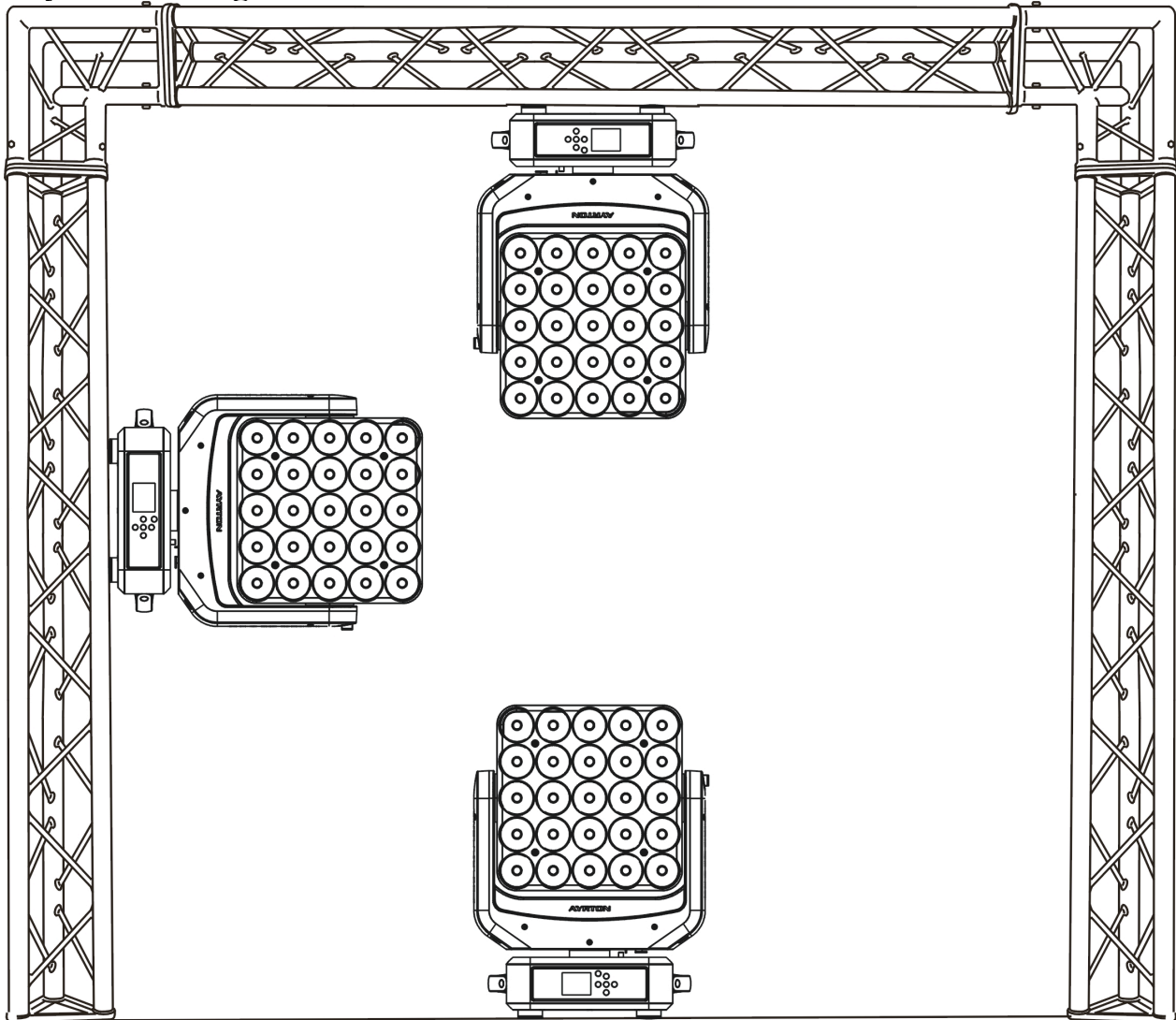
**Notice: this step is quite important to ensure that the fixture will not drop out by the damage of the clamp.**

**Dimensional Drawings:**





## Layout Drawings:



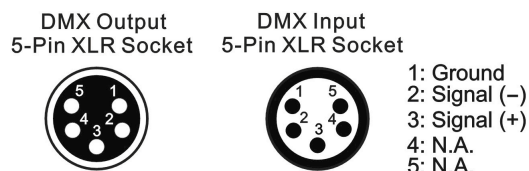
### Mounting points

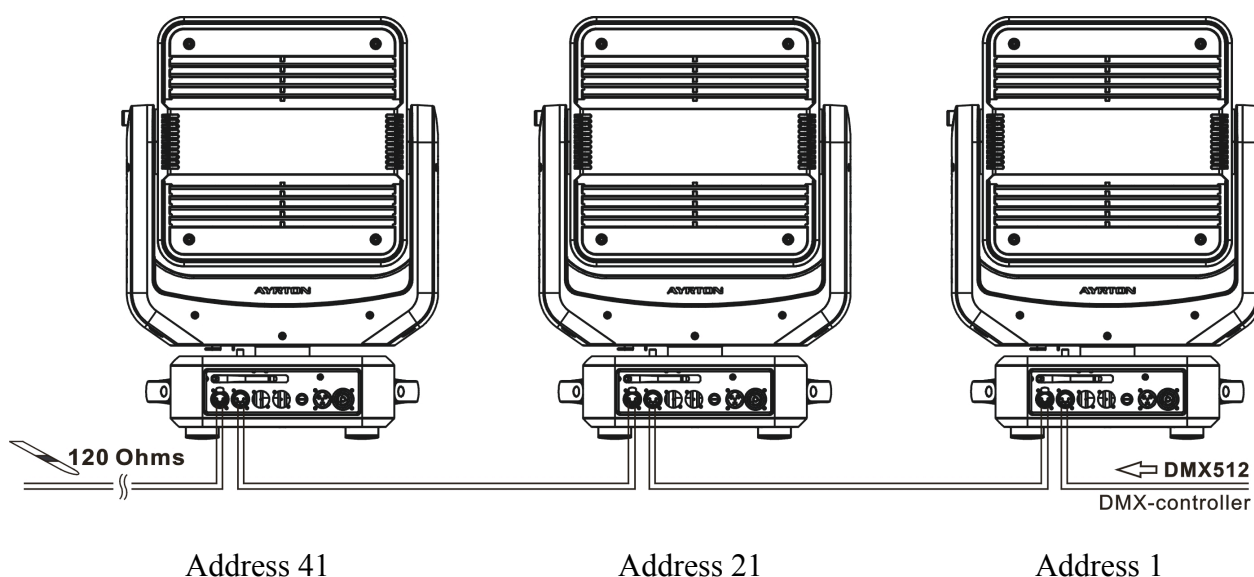
Be sure this fixture is kept at least 0.5m away from any flammable materials (decoration etc.). Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

## 5. DMX-512 control connection

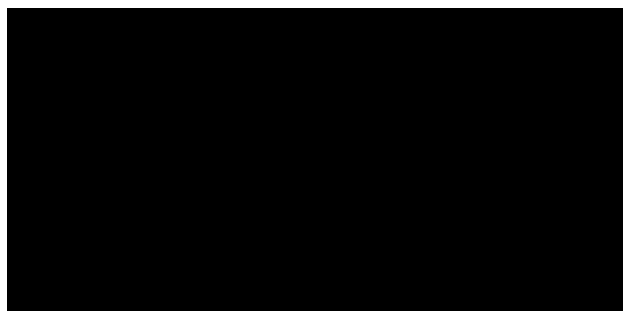
Connect the provided XLR cable to the female 5-pin XLR output of your controller and the other side to the male 5-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.





## 6. DMX-512 connection with DMX terminator

For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120  $\Omega$  resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.



## 7. Projector DMX start address selection

All fixtures should be given a DMX starting address when using a DMX signal, so that the correct fixture responds to the correct control signals. This digital starting address is the channel number from which the fixture starts to “listen” to the digital control information sent out from the DMX controller. The allocation of this starting address is achieved by setting the correct number on the display located on the base of the device.

You can set the same starting address for all fixtures or a group of fixtures, or make different address for each fixture individually.

If you set the same address, all the units will start to “listen” to the same control signal from the same channel number. In other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set a different address, each unit will start to “listen” to the channel number you have set, based on the quantity of control channels of the unit. That means changing the settings of one channel will affect only the selected fixture.

In the case of the led move head, which is a 20 channel fixture, you should set the starting address of the first unit to 1, the second unit to 21 ( $20 + 1$ ), the third unit to 41 ( $20 + 21$ ), and so on.

## 8. Operating instructions of the internal DMX wireless system

### 1. Equipments:

DMX 512 controller, wireless transmitter, and the fixtures with wireless receiver.

### 2. Message from the LED indicator:

- 1) Rapid flashing red/Green: logging in to a transmitter
- 2) Slow flashing Red/Green: Logged on a transmitter and the DMX line is idle (No DMX is connected to transmitter).
- 3) Solid Green: Logged on to a transmitter and receiving DMX data.
- 4) Solid Red: Not logged on to a transmitter (free)

### 3. WDMX in the menu of the fixture:

On a fixture installed with wireless system, in order to switch between wireless control system and traditional DMX control (with cable), a new menu WDMX is added to the display board.

ON: (Activate WDMX)

1) When the fixture is on power, and the WDMX is activated to ON status, but did not connect to the controller and did not log in to the transmitter, the fixture will search for the DMX signal source. If the fixture is connected to the DMX controller it can be controlled by DMX controller; if it is log in to the wireless transmitter, it can be controlled by the Transmitter

2) When the fixture is power off, and the WDMX is in ON status, if the fixture is connected to DMX controller. After the fixture is power on, it can be controlled only by the DMX controller which connected. The fixture can log in the wireless transmitter, and receive only radio signal from transmitter, but not DMX from the transmitter.

OFF: (De-activate WDMX)

In this status, wireless system is not activated, so the fixture can not log in the transmitter.

REST: (reset WDMX memory);

Can remove the fixture from the connection with the transmitter, the fixture become free and ready to log in any transmitter.

### 4. Setup the wireless system:

- 1) Connect the transmitter with the DMX controller
- 2) To make the fixture installed with wireless receiver log in to the transmitter
  - a) Initially, the indicator on the receiver fixture should be in Solid red
  - b) Press and hold the configuration button on transmitter for less than 3 seconds the red/green LEDs on the transmitter and the receiver fixture will flash rapidly for about 5~ 10 seconds while the system goes through its setup procedure.
  - c) Once the receiver fixture is logged in to the transmitter (T1), the fixture with wireless receiver will keep the memory, even if restart the power, this unit will log in the transmitter (T1) automatically.

### 3) Use the DMX 512 to control the fixture

### 5. Remove the receivers from transmitter (T1) and to log in to another transmitter (T2)

Case 1: Remove a receiver:

- a) On the control board of the fixture, enter menu to activated the function of REST;
- b) The LED for wireless on the fixture should turn to Solid red; the receiver can log out from the transmitter (T1);
- c) press the configuration button on transmitter(T2) for less than 3 second, then the fixture will start to connect with the transmitter(T2)

Case 2: Remove all receivers from a transmitter (T1) to log in to T2;

- a) Press and hold the configuration button on the T1 as least 5 seconds, can clear the

connection with all the fixtures.

- b) All the red/green LEDs on the receiver fixtures will turn to Solid red to indicate that the receivers are unassigned and removed from the transmitter ( T1);
- c) Press and hold the configuration button on the T2 less then less than 3 second , the fixtures will connect with the T2

PS: 1. Please log the receivers out from the transmitter after every job, so that the receivers are in free un assigned state and ready to be assigned to a transmitter.


2. Do not connect the fixture which is under the communication of wireless system to the DMX controller, otherwise it will cause interference from the DMX controller.

## 9. Control Board

The Control Board offers several features: you can simply set the starting address , run the pre-programmed program or make a reset.


The main menu is accessed by pressing the  -button until the display starts flashing.

Browse through the menu by pressing the  -button ,  -button ,  -button or

 -button. Press the Enter-button in order to select the desired menu. You can change the

selection by pressing the the  -button ,  -button ,  -button or  -button.

Confirm every selection by pressing the  -button. You can leave every mode or access the

display menu via the internal battery by pressing the  -button for 5 minute; The functions provided are described in the following sections. it will exit from flash 10 seconds after the last keypress. Press this key under edit mode, . The functions provided are described in the following sections.

Address	Set Dmx Addr	A001~AXXX		DMX address setting
Users Mode	User Mode	Stand Mode Basic Mode Extend Mode User Mode A User Mode B User Mode C		User's mode to change channel numbers
	Edit User	Max channel PAN :		Preset User modes :
Options	Status	Addr via DMX No DMX Mode Pan Reverse Tilt Reverse Pan Degree Tilt Degree Feedback Pan/Tilt Spd Mic Sens. Hibernation	ON/OFF Close/Hold/Auto/Music ON/OFF ON/OFF 630/540 270/540 ON/OFF Speed 1~ 4 0~99% OFF, 01M~99M, 15M	Add. via DMX Auto run if no DMX Pan Reverse movement Tilt Reverse movement Pan Degree Select Tilt Degree Select Movement Feedback Reset Pan/Tilt Sensitivity of Mic. Stand by Mode

	Service PIN	Service PIN RDM PID Set Ip Set Device ID Set LED BIN Change To BIN	Password=XXX Xxxxxx xxx.xxx.xxx.xxx xx LED BIN LED BIN	Service Password“=050” RDM PID Code KlingNet Device ID IP Addr LED BIN LED BIN
	Fans Control	Head Control	Auto High Low	Head Fans Speed Mode Select
	Disp.Setting	Shutoff Time Flip Display Key Lock DispFlash	02~60m 05m ON/OFF ON/OFF ON/OFF	Display shutoff time Reverse 180 degree Key Lock No Signal Rash
	Signal Select	DMX WDMX Art--Net		DMX Wireless DMX Art-Net
	LED Control	Kling-Net OFF Kling-Net RGB Kling-Net RGBW		KlingNet confer Kling-Net confer RGB Kling-Net confer RGBW
	Set Universe	xx		Art-Net Universe NO.
	Temp. C/F	Celsius Fahrenheit		Temperature switch between □/□
	Initial Pos.	PAN =XXX		Initial effect position
	Wireless DMX	Activate WDMX Act&Data Out Rest WDMX		Activate WDMX Act & Data Out Reset Wireless DMX Mem
	Trigger	DMX Value Disp. Set To Slave Auto Program Music Ctrl.	PAN..... Slave1,Slave2,Slave3 Master / Alone Master / Alone	DMX value display Slave setting Auto program Music control
	ResetDefault	ON/OFF		Restore factory set.
Info	Time Info.	Current Time Ttl Life Hrs Last Run Hrs Timer PIN Clr Last Run		XXXX(Hours) XXXX(Hours) XXXX(Hours) Password=XXX ON/OFF
	Temp. Info	Head Temp.		XXX□/□
	Software Ver	V1.0.4.....		Software version
	Network	IP,Mask,Mac		Network setting
Test	Home	All Pan&Tilt		Reset all motors Reset Pan/Tilt
	Test Channel	PAN .....		Test function
	Manual Ctrl.	PAN =XXX :		Fine adjustment of the lamp
	Calibration	-Password- PAN :		Password “050” Calbrate and adjust the effects to standard/right position
Preset	Select Prog.	Prog. Part 1 = Program 1 ~ 10 Prog. Part 2 = Program 1 ~ 10 Prog. Part 3 = Program 1 ~ 10	Program 1 Program 2 Program 3	Select programs to be run

	Edit Prog.	Program 1 : Program 10	Program Test Step 01=SCxxx Step 64=SCxxx	Testing program Program in loop Save and exit
	Edit Scenes	Edit Scene 001 ~ Edit Scene 250	Pan,Tilt,..... --Fade Time-- --Secne Time-- Input By Outside	Save and automatically return manual scenes edit
	Scenes Input	XX~XX		Automat. scenes rec

Default settings shaded

## 9.1 Address

### 9.1.1 Set DMX Addr

With this function, you can adjust the desired DMX-address via the Control Board.

1. Access the main menu.
2. Tap the <Up/Down>button until “Set DMX Addr” is displayed.
3. Press ENTER, the display will show “Set DMX Addr” .
4. Tap the <Up/Down>button, the display will show “A001~AXXX”
5. Press ENTER to confirm or press <MODE/ESC> to return to the main menu.

## 9.2 Users mode

In this menu, user can select different channels list by different sequence:

For example, after the user enter this manual, if select Auto Program = CH 22, means in this User’s mode, the “Dimmer” is in Channel 16.

### 9.2.1 User mode

With this function, you can create user defined channel orders.

#### 9.2.2 Edit User

With this function, you can adjust the rest user defined channel order.

1. Access the main menu.
2. The display show “Edit User” frist channel, Press <Up/Down> the display will show “Edit User” .
3. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

## 9.3 Options

### 9.3.1 Status

#### Addr via DMX

With this function, you can adjust the desired DMX-address via an external controller.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Addr via DMX” .
3. Press< ENTER>, the display will show “Addr via DMX” .
4. The display show “ON” ,Press <Up/Down>, the display will show “OFF” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

#### No DMX Mode

With this function, when the drive is not DMX signal, it runs automatism, close, hold and music, the default is hold.

1. Access the main menu.
2. Press <Up/Down>, the display will show “No DMX Mode” .
3. Press< ENTER>, the display will show “No DMX Mode” .

4. The display show “Hold”, Press <Up/Down>, the display will show “Close”, “Auto”, “Music”.
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **Pan Reverse**

With this function you can reverse the Pan-movement.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Pan Reverse” .
3. Press< ENTER>, the display will show “Pan Reverse” .
4. The display show “OFF” ,Press <Up/Down>, the display will show “ON” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **Tilt Reverse**

With this function you can reverse the Tilt-movement.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Tilt Reverse” .
3. Press< ENTER>, the display will show “Tilt Reverse” .
4. The display show “OFF” ,Press <Up/Down>, the display will show “ON” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **Pan Degree**

With this function, you can select pan degree for 630 or 540.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Pan Degree” .
3. Press< ENTER>, the display will show “Pan Degree” .
4. The display show “540” ,Press <Up/Down>, the display will show “630” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **Tilt Degree**

With this function, you can select pan degree for 270 or 540.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Tilt Degree” .
3. Press< ENTER>, the display will show “Tilt Degree” .
4. The display show “270” ,Press <Up/Down>, the display will show “540” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **Feedback**

With this function, you can feedback switch of pan movement or tilt movement.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Feedback” .
3. Press< ENTER>, the display will show “Feedback” .
4. The display show “ON” ,Press <Up/Down>, the display will show “OFF” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **Pan/Tilt Spd**

With this function, you can select scan mode from 1 to 4.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Pan/Tilt Spd” .
3. Press< ENTER>, the display will show “Pan/Tilt Spd” .

4. The display show “Speed 1” ,Press <Up/Down>, the display will show “Speed 2”, “Speed 3”, “Speed 4”.
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

#### **Mic Sens.**

With this function, the default is 70%, you can select the desired microphone sensitivity from 0 % to 99 %.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Mic Sens.” .
3. Press< ENTER>, the display will show “Mic Sens.” .
4. The display show “70%” ,Press <Up/Down>, the display will show “0~99%” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

#### **Hibernation ——Standby mode**

The lamp and step motors will be power off if the fixture stay without DMX signal for 15 mins (Factory default).And the fixture will be reset before working once it receive DMX signal again.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Hibernation” .
3. Press< ENTER>, the display will show “Hibernation” .
4. The display show “15M” ,Press <Up/Down>, the display will show “01M”, “02M” .... “99M” or “OFF” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **9.3.2 Service PIN**

**Service PIN**——The Password for this function is “50”.

**RDM PID**—— With this function you can call up various submenus via RDM.

This device is RDM ready. RDM stands for "remote device management" and makes remote control of devices connected to the DMX-bus. ANSI E1.20-2006 by ESTA specifies the RDM standard as an extension of the DMX512 protocol.

Manual settings like adjusting the DMX starting address are no longer needed. This is especially useful when the device is installed in a remote area.

RDM ready and conventional DMX devices can be operated in one DMX line. The RDM protocol sends own packages in the DMX512 data feed and does not influence conventional devices.

If DMX splitters are used and RDM control is to be used, these splitters must support RDM.

The number and type of RDM parameters depend on the RDM controller being used.

#### **Set IP**

1. Access the main menu.
2. Press <Up/Down>, the display will show “Set IP.” .
3. Press< ENTER>, the display will show “Set IP” .
4. The display show “xxx.xxx.xxx.xxx” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.



### **Set Device ID**

1. Access the main menu.
2. Press <Up/Down>, the display will show “Set Device ID.” .
3. Press< ENTER>, the display will show “Set Device ID” .
4. The display show “xx” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **Set LED BIN**

1. Access the main menu.
2. Press <Up/Down>, the display will show “Set LED BIN” .
3. Press< ENTER>, the display will show “Set LED BIN” .
4. The display show “LED BIN” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **Change To BIN**

1. Access the main menu.
2. Press <Up/Down>, the display will show “Change To BIN” .
3. Press< ENTER>, the display will show “Change To BIN” .
4. The display show “LED BIN” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

## **9.3.3 Fans Control**

### **Head Control**

With this function, you can set the speed of the running fans. The selections have Auto、High and Low.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Head Control” .
3. Press< ENTER>, the display will show “Head Control” .
4. The display show “Auto” ,Press <Up/Down>, the display will show “High”, “Low”.
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

## **9.3.4 Disp.Setting**

### **Shutoff Time**

With this function you can shut off the color LCD display after 2 to 60 minutes. Turn the encoder in order to select the desired shut off time. The default is 5 minute.

### **Flip Display**

With this function you can the entire display to be flipped by 180° to allow for better view when the fixture is hung from truss or a ceiling. This function is disabled as default.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Flip Display” .
3. Press< ENTER>, the display will show “Flip Display” .
4. The display show “OFF” ,Press <Up/Down>, the display will show “ON” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **Key Lock**

With this function you can activate the automatic keylock status. If this function is activated, the keys will be locked automatically after exiting the edit mode for 15 seconds. keeping press the [MENU] key for 3seconds if you do not need this function.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Key Lock” .
3. Press< ENTER>, the display will show “Key Lock” .
4. The display show “OFF” ,Press <Up/Down>, the display will show “ON” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **DispFlash**

With this function you can the entire display to be flipped by 180° to allow for better view when the fixture is hung from truss or a ceiling. This function is disabled as default.

1. Access the main menu.
2. Press <Up/Down>, the display will show “DispFlash” .
3. Press< ENTER>, the display will show “DispFlash” .
4. The display show “OFF” ,Press <Up/Down>, the display will show “ON” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **9.3.5 Signal Select**

1. Access the main menu.
2. Press <Up/Down>, the display will show “Signal Select” .
3. Press< ENTER>, the display will show “Signal Select” .
4. The display show “DMX” ,Press <Up/Down>, the display will show “WDMX” , “Art--Net” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **9.3.6 LED Control**

1. Access the main menu.
2. Press <Up/Down>, the display will show “LED Control” .
3. Press< ENTER>, the display will show “LED Control” .
4. The display show “Kling-Net OFF” ,Press <Up/Down>, the display will show “Kling-Net RGB” , “Kling-Net RGBW” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **9.3.7 Set Universe**

1. Access the main menu.
2. Press <Up/Down>, the display will show “Set Universe” .
3. Press< ENTER>, the display will show “Set Universe” .
4. The display show “xxx” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **9.3.8 Temp. C/F**

With this function, Display the temperature for Celsius or Fahrenheit.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Temp. C/F” .
3. Press< ENTER>, the display will show “Temp. C/F” .
4. The display show “Celsius” ,Press <Up/Down>, the display will show “Fahrenheit”.
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### 9.3.9 Initial Pos.

With this function, Display initial effect position.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Initial Pos.” .
3. Press< ENTER>, the display will show “Initial Pos.” .
4. The display show “XXX” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### 9.3.10 Wireless DMX

From factory, this projector is prepared for wireless data transmission (W-DMX). If you wish to de-activate W-DMX control, you can select the function “De-activate WDMX” by turning the encoder. With the function “rest”, you can log out the projector from the wireless sender.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Wireless DMX” .
3. Press< ENTER>, the display will show “Wireless DMX” .
4. The display show “Activate WDMX” , Press <Up/Down>, the display will show “Act&Data Out” , “Rest WDMX”.
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### 9.3.11 Trigger

#### DMX Value Disp.

With this function you can display the DMX 512 value of each channel. The display automatically shows the channel with a value changing.

1. Access the main menu.
2. Tap the <Up/Down>button until “DMX Value Disp.” is displayed.
3. Press ENTER, the display will show “DMX Value Disp.” .
4. Tap the <Up/Down>button, choose each channel.
5. Press ENTER to confirm or press <MODE/ESC> to return to the main menu.

#### Set To Slave

With this function, you can define the device as slave.

1. Access the main menu.
2. Tap the <Up/Down>button until “Set To Slave” is displayed.
3. Press ENTER, the display will show “Set To Slave” .
4. Tap the <Up/Down>button, the display will show “Slave1”, ”Slave2”, ”Slave3”.
5. Press ENTER to confirm or press <MODE/ESC> to return to the main menu.

#### Auto Program

With this function, you can run the internal program. You can select the desired program under “**Select program**”. You can set the number of steps under “**Edit program**”. You can edit the individual scenes under “**Edit scenes**”. With this function, you can run the individual scenes either automatically, i.e. with the adjusted Step-Time.

1. Access the main menu.
2. Tap the <Up/Down>button until “Auto Program” is displayed.
3. Press ENTER, the display will show “Auto Program” .
4. Tap the <Up/Down>button, the display will show “Master1”, ”Alone”.
5. Press ENTER to confirm or press <MODE/ESC> to return to the main menu.

#### Music Ctrl.

With this function, you can run the internal program sound-controlled.

1. Access the main menu.
2. Tap the <Up/Down>button until “Music Ctrl.” is displayed.
3. Press <ENTER>, the display will show “Music Ctrl.” .
4. Tap the <Up/Down>button, the display will show “Master1”, ” Alone”.
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **9.3.12 ResetDefault**

With this function, you can select restore factory set for ON or OFF, the default is OFF.

1. Access the main menu.
2. Press <Up/Down>, the display will show “ResetDefault” .
3. Press< ENTER>, the display will show “ResetDefault” .
4. The display show “OFF” ,Press <Up/Down>, the display will show “ON”.
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

## **9.4 Info**

### **9.4.1 Time info.**

#### **Current Time**

With this function, you can display the temporary running time of the device from the last power on. The display shows “XXXX”, “XXXX” stands for the number of hours. The counter is resetted after turning the device off.

1. Access the main menu.
2. the display will show “Time Information” .
3. Press <Up/Down>, the display will show “Current Time” .
4. Press< ENTER>, the display will show “Current Time” .
5. The display will show “XXXX” (Hours) ;
6. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

#### **Ttl Life Hrs**

With this function, you can display the running time of the device. The display shows “XXXX”, “XXXX” stands for the number of hours.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Ttl Life Hrs” .
3. Press< ENTER>, the display will show “Ttl Life Hrs” .
4. The display will show “XXXX” (Hours) ;
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

#### **Last Run Hrs**

With this function, you can display last the running time of the lamp. The display shows “XXXX”, “XXXX” stands for the number of hours

1. Access the main menu.
2. Press <Up/Down>, the display will show “Last Run Hrs” .
3. Press< ENTER>, the display will show “Last Run Hrs” .
4. The display will show “XXXX” (Hours) ;
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

#### **Timer PIN**

With this function, you can display the timer password.

1. Access the main menu.

2. Press <Up/Down>, the display will show “Timer PIN” .
3. Press< ENTER>, the display will show “Timer PIN” . The time password is 038.
4. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

#### **Clr Last Run**

With this function, you can clear last run time of the fixture. The display shows “ON” or “OFF”, Press “Enter” to confirm.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Clr Last Run” .
3. At “Timer PIN” menu input right password, Press< ENTER>, the display will show “Clr Last Run” .
4. The display show “OFF” ,Press <Up/Down>, the display will show “ON” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **9.4.2 Temp. Info**

#### **Head Temp.**

With this function you can display the temperature on the display board of the base (near CMY-filter) in Celsius.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Head Temp.” .
3. Press< ENTER>, the display will show “Head Temp.” .
4. The display show “XXX ° C/ ° F”.
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **9.4.3 Software ver**

With this function, you can display the software version of the device.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Software ver” .
3. Press< ENTER>, the display will show “Software ver” .
4. The display show “Ver x.x”.
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **9.4.4 Network**

1. Access the main menu.
2. Press <Up/Down>, the display will show “Network” .
3. At “Timer PIN” menu input right password, Press< ENTER>, the display will show “Network” .
4. The display show “IP”, Press <Up/Down>, the display will show “Mask”, “Mac”.
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

## **9.5 Test**

### **9.5.1 Home**

With this function you can reset the device via the Control Board. You can select the different reset functions by turning the encoder.

1. Access the main menu.
2. The display show “All” , Press <Up/Down>, the display will show “All”, “Pan&Tilt” .
3. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **9.5.2 Test Channel**

With this function you can test each channel on its (correct) function.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Test Channel” .
3. Press< ENTER>, the display will show “Test Channel” .
4. The display show “Pan Moving” first channel, Press <Up/Down>, can choose other channel.
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **9.5.3 Manual Ctrl.**

With this function, you can adjust the lamp more easily. All effects will be canceled, the shutter opens and the dimmer intensity will be set to 100 %. With the individual functions, you can focus the light on a flat surface (wall) and perform the fine lamp adjustment.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Manual Ctrl.” .
3. Press< ENTER>, the display will show “Manual Ctrl.” .
4. The display show “PAN=XXX” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

### **9.5.4 Calibration**

With this function, you can calibrate and adjust the effect wheels to their correct positions. The password of calibrate values is 050.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Calibration” .
3. Press< ENTER>, the display will show “Calibration” .
4. The display show “Password=XXXX” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

## **9.6 Preset**

### **9.6.1 Select Prog.**

With this function, you can select the program for the Program Run.

### **9.6.2 Edit Prog.**

With this function, you can edit the internal programs.

### **9.6.3 Edit Scenes**

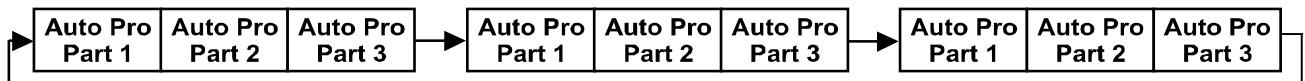
With this function, you can edit the scenes of the internal programs.

### **9.6.4 Scenes Input**

The moving head features an integrated DMX-recorder by which you can transmit the programmed scenes from your DMX-controller to the moving head. Adjust the desired scene numbers via the encoder (from – to). When you call up the scenes at your controller, they will automatically be transmitted to the moving head.

### **Excursion:**

A Master unit can send up to 3 different data groups to the Slave units, i.e. a Master unit can start 3 different Slave units, which run 3 different programs. The Master unit sends the 3 program parts in a continuous loop.



The Slave unit receives data from the Master unit according to the group which the Slave unit was assigned to. If e.g. a Slave unit is set to “Slave 1” in the menu “Set to Slave”, the Master unit sends “Auto Program Part 1” to the Slave unit. If set to “Slave 2”, the Slave unit receives “Auto Program Part 2”.

To start a Auto Program please proceed as follows:

### 1. Slave-Setting

- Select “Function Mode” by turning the encoder.
- Press the Enter button to confirm.
- Select “Set to slave” by turning the encoder.
- Press the Enter button to confirm.
- Turn the encoder to select “Slave 1”, “Slave 2” or “Slave 3”.
- Press the Enter button to confirm.
- Press the MODE/ESC button in order to return to the main menu.

### 2. Automatic Program Run

- Select “Function Mode” by turning the encoder.
- Press the Enter button to confirm.
- Select “Auto Program” by turning the encoder.
- Press the Enter button to confirm.
- Turn the encoder to select “Master” or “Alone”. The selection "Alone" means Stand Alone-mode and "Master" that the device is defined as master.
- Press the Enter button to confirm.
- Press the MODE/ESC button in order to return to the main menu.

### 3. Program selection for Auto Pro Part

- Select “Edit program” by turning the encoder.
- Press the Enter button to confirm.
- Select “Select programs” by turning the encoder.
- Press the Enter button to confirm.
- Turn the encoder to select “Auto Pro Part 1”, “Auto Pro Part 2” or “Auto Pro Part 3”, and thus select which Slave program is to be sent. Selection “Part 1” means, that the Slave unit runs the same program as the master units.
- Press the Enter button to confirm.
- Press the MODE/ESC button in order to return to the main menu.

### 4. Program selection for Edit Program

- Select “Edit program” by turning the encoder.
- Press the Enter button to confirm.
- Select “Edit program” by turning the encoder.
- Press the Enter button to confirm.
- Turn the encoder to select the desired program. With this function you can edit specific scenes into a specific program.
- Press the Enter button to confirm.
- Press the MODE/ESC button in order to return to the main menu.

### 5. Automatic Scene Recording

- Select “Edit program” by turning the encoder.
- Press the Enter button to confirm.
- Select “Edit scenes” by turning the encoder.

- Turn the encoder to select the desired scene numbers. You can program a maximum number of 250
- Press the Enter button to confirm.
- Press the MODE/ESC button in order to return to the main menu.

Example:

Program 2 includes scenes: 10, 11, 12, 13

Program 4 includes scenes: 8, 9, 10

Program 6 includes scenes: 12, 13, 14, 15

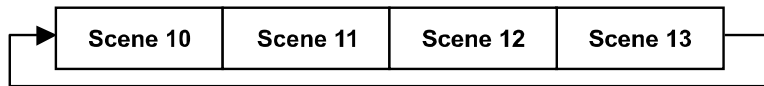
Auto Pro Part 1 is Program 2;

Auto Pro Part 2 is Program 3;

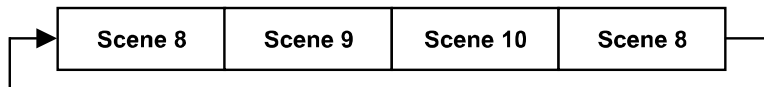
Auto Pro Part 3 is Program 6

The 3 Slave groups run the Auto Program in certain time segments, as shown in the following picture:

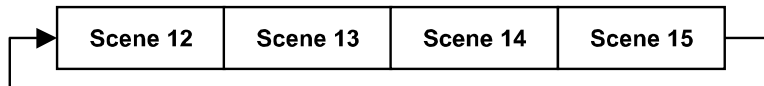
**Part 1:**



**Part 2:**



**Part 3:**



## 10. INSTRUCTIONS ON USE:

DMX channel's functions and their values (116 DMX channels):				
Mode/Channel			Value	Function
St	Ba	Ex		
1	1	1		<b><u>PAN Movement 8bit :</u></b>
			0-255	Pan Movement
2		2		<b><u>Pan Fine 16bit</u></b>
			0-255	Fine control of Pan movement
3	2	3		<b><u>TILT Movement 8bit :</u></b>
			0-255	Tilt Movement
4		4		<b><u>Tilt Fine 16bit</u></b>
			0-255	Fine control of Tilt movement
5	3	5		<b><u>Speed Pan/Tilt movement:</u></b>
			0-225	max to min speed
			226-235	blackout by movement



			236-255	no function
6	4	6		<b>Pan Motor continuous rotation</b>
			0-127	no function
			128-189	Forwards Pan rotation from fast to slow
			190-193	No rotation
			194-255	Backwards Pan rotation from slow to fast
7	5	7		<b>Tilt Motor continuous rotation</b>
			0-127	no function
			128-189	Forwards Tilt rotation from fast to slow
			190-193	No rotation
			194-255	Backwards Tilt rotation from slow to fast
8	6			<b>Red LED -all arrays :</b>
			0-255	Red ( 0-Black , 255-100% Red )
9	7			<b>Green LED-all arrays :</b>
			0-255	Green ( 0-Black , 255-100% Green )
10	8			<b>Blue LED -all arrays :</b>
			0-255	Blue ( 0-Black , 255-100% Blue )
11	9			<b>White LED -all arrays :</b>
			0-255	White ( 0-Black , 255-100% White )
		17		<b>Red LED -array 1 :</b>
			0-255	Red ( 0-Black , 255-100% Red )
		18		<b>Green LED-array 1 :</b>
			0-255	Green ( 0-Black , 255-100% Green )
		19		<b>Blue LED -array 1 :</b>
			0-255	Blue ( 0-Black , 255-100% Blue )
		20		<b>White LED -array 1 :</b>
			0-255	White ( 0-Black , 255-100% White )
		21		<b>Red LED -array 2 :</b>
			0-255	Red ( 0-Black , 255-100% Red )
		22		<b>Green LED-array 2 :</b>
			0-255	Green ( 0-Black , 255-100% Green )
		23		<b>Blue LED -array 2 :</b>
			0-255	Blue ( 0-Black , 255-100% Blue )
		24		<b>White LED -array 2 :</b>
			0-255	White ( 0-Black , 255-100% White )
			• • • • •	—
		113		<b>Red LED -array 36 :</b>
			0-255	Red ( 0-Black , 255-100% Red )
		114		<b>Green LED-array 36 :</b>
			0-255	Green ( 0-Black , 255-100% Green )
		115		<b>Blue LED -array 36 :</b>
			0-255	Blue ( 0-Black , 255-100% Blue )

		116		<b>White LED -array 36 :</b>
			0-255	White ( 0-Black , 255-100% White )
12	10	8		<b>Shutter, strobe:</b>
			0-31	Led trun off
			32-63	Led turn on
			64-95	Strobe effect slow to fast
			96-127	Led turn on
			128-159	Pulse-effect in sequences
			160-191	Led turn on
			192-223	Random strobe effect slow to fast
			224-255	Led turn on
13	11	9		<b>Dimmer intensity:</b>
			0-255	Intensity 0 to 100%
14	12	10		<b>Color Macro:</b>
			0-7	No function
			8-39	from RED to YELLOW
			40-71	from YELLOW to GREEN
			72-103	from GREEN to CYAN
			104-135	from CYAN to BLUE
			136-167	from BLUE to MAGENTA
			168-199	from MAGENTA to RED
			200-231	from RED to WHITE
			232-255	Crossfading colours from slow to fast
15	13	11		<b>Color Presets:</b>
			0-4	No function
			5--9	White2700k
			10--14	White3200k
			15-19	White4200k
			20-24	White5600k
			25-29	White6500k
			30-34	White8000k
			35-39	Yellow
			40-44	Magenta
			45-49	Cyan
			50-54	Salmon
			55-59	Turquoise
			60-64	Light Green
			65-69	Steel Blue
			70-74	Orange
			75-79	Straw
			80-84	Pale Lavander
			85-89	Pink
			90-94	Red

			95-99	Green
			100-104	Blue
			105-109	White
			110-104	Rainbow1
			115-119	Rainbow2
			120-124	Rainbow3
			125-255	Reserved
19	17	15		<b>Color Presets Dimmer:</b>
			0-255	Dimmer 0% to 100%
16	14	12		<b>Chase Patterns:</b>
			0--9	Led trun off
			10-11	Chase 1
			12-13	Chase 2
			14-15	Chase 3
			16-17	Chase 4
			18-19	Chase 5
			20-21	Chase 6
			22-23	Chase 7
			24-25	Chase 8
			26-27	Chase 9
			28-29	Chase 10
			30-31	Chase 11
			32-33	Chase 12
			34-35	Chase 13
			36-37	Chase 14
			38-39	Chase 15
			40-41	Chase 16
			42-43	Chase 17
			44-45	Chase 18
			46-47	Chase 19
			48-49	Chase 20
			50-51	Chase 21
			52-53	Chase 22
			54-55	Chase 23
			56-57	Chase 24
			58-59	Chase 25
			60-61	Chase 26
			62-63	Chase 27
			64-65	Chase 28
			66-67	Chase 29
			68-69	Chase 30
			70-71	Chase 31
			72-73	Chase 32

		74-75	Chase 33
		76-77	Chase 34
		78-79	Chase 35
		80-81	Chase 36
		82-83	Chase 37
		84-85	Chase 38
		86-87	Chase 39
		88-89	Chase 40
		90-91	Chase 41
		92-93	Chase 42
		94-95	Chase 43
		96-97	Chase 44
		98-99	Chase 45
		100-101	Chase 46
		102-103	Chase 47
		104-105	Chase 48
		106-107	Chase 49
		108-109	Chase 50
		110-111	Chase 51
		112-113	Chase 52
		114-115	Chase 53
		116-117	Chase 54
		118-119	Chase 55
		120-121	Chase 56
		122-123	Chase 57
		124-125	Chase 58
		126-127	Chase 59
		128-129	Chase 60
		130-131	Chase 61
		132-133	Chase 62
		134-135	Chase 63
		136-137	Chase 64
		138-139	Chase 65
		140-141	Chase 66
		142-143	Chase 67
		144-145	Chase 68
		146-147	Chase 69
		148-149	Chase 70
		150-151	Chase 71
		152-153	Chase 72
		154-155	Chase 73
		156-157	Chase 74
		158-159	Chase 75

			160-161	Chase 76
			162-163	Chase 77
			164-165	Chase 78
			166-167	Chase 79
			168-169	Chase 80
			170-171	Chase 81
			172-173	Chase 82
			174-175	Chase 83
			176-177	Chase 84
			178-179	Chase 85
			180-181	Chase 86
			182-183	Chase 87
			184-185	Chase 88
			186-187	Chase 89
			188-189	Chase 90
			190-191	Chase 91
			192-193	Chase 92
			194-195	Chase 93
			196-197	Chase 94
			198-199	Chase 95
			200-201	Chase 96
			202-203	Chase 97
			204-205	Chase 98
			206-207	Chase 99
			208-209	Chase 100
			210-211	Chase 101
			212-213	Chase 102
			214-215	Chase 103
			216-217	Chase 104
			218-219	Chase 105
			220-221	Chase 106
			222-223	Chase 107
			224-225	Chase 108
			226-227	Chase 109
			228-229	Chase 110
			230-231	Chase 111
			232-233	Chase 112
			234-235	Chase 113
			236-235	Reserved
17	15	13		<b><u>Chase Speed:</u></b>
			0-125	Fast to Slow Backward
			126-130	Stop(Speed=0)
			131-255	Slow to Fast Forward

18	16	14		<b><u>Chase Fade:</u></b>
			0-255	Fade Chase
				<b><u>Reset, internal programs:</u></b>
			0-79	Normal
			80-84	All motor reset
			85-87	Scan motor reset
			88-90	no function
			91-93	no function
			94-96	no function
			97-99	no function
20	18	16	100-119	Internal program 1 (secne1~8 of EEPROM)
			120-139	Internal program 2 (secne9~16 of EEPROM)
			140-159	Internal program 3 (secne17~24 of EEPROM)
			160-179	Internal program 4 (secne25~32 of EEPROM)
			180-199	Internal program 5 (secne33~40 of EEPROM)
			200-219	Internal program 6 (secne41~48 of EEPROM)
			220-239	Internal program 7 (secne49~56 of EEPROM)
			240-255	Music Control (secne of Program 1)

## 11. ERROR MESSAGE

When you turn on the fixture, it will make a reset at first. The display may show “Err channel is XX” while there are problems with one or more channels. “XX” stands for channel 1, 2, 3, 4, 5, 6 who has the testing sensor for positioning. For example, when the display shows “Err channel is Red LED -all arrays”, it means there is some error in channel 1. If there are some errors on channel 1, channel 3 at the same time, you may see the error message, “Err channel is Pan movement”, “Err channel is Tilt movement”, flash repeated for 2 times, and then the fixture will generate a second reset. If the fixture remain error message after performing reset more than 2 times, only the channels which have errors can not work properly, others can work as usual. Please contact with dealer or manufacturer for service, self repair is not allowed.

### **PAN- movement Er**

(PAN-yoke movement error) This message will appear after the reset of the fixture if the yoke’s magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The PAN- movement is not located in the default position after the reset.

### **TILT- movement Er**

(TILT-head movement error) This message will appear after the reset of the fixture if the head’s magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The TILT- movement is not located in the default position after the reset.

## 12. CLEANING AND MAINTENANCE

The following points have to be considered during the inspection:

- 1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
  - 2) There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing).
  - 3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
  - 4) The electric power supply cables must not show any damage, material fatigue or sediments.
- Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.



### CAUTION!

Disconnect from mains before starting maintenance operation.

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

- 1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
- 2) Clean the fan each week.
- 3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint- free cloth. Never use alcohol or solvents.

There are no serviceable parts inside the device except for the lamp. Please refer to the instructions under “Installation instructions”.

Should you need any spare parts, please order genuine parts from your local dealer.

## 13. TECHNICAL SPECIFICATIONS

**Power supply:** AC 100-240V~, 50/60Hz

**Power consumption:** 550W

**Packing dimensions:** 51.5x37.5x68 cm

**Net weight:** 21 KGS

**Gross weight:** 32 KGS

**Remark:** errors and omissions for every information given in this manual excepted. All information is subject to change without prior notice.